FEBRUARY 1978
NASHVILLE, TENNESSEE
NATIONAL WEATHER SERVICE OFC
METROPOLITAN AIRPORT

Local Climatological Data

MONTHLY SUMMARY

LATITUDE 36° 07′ N LONGITUDE 86° 41′ W ELEVATION (GROUND) 590 FT. STANDARD TIME USED: CENTRAL WBAN #13897

FEBRUARY 1978 NASHVILLE, TENNESSEE

DATE	TEMPERATURE °F: MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	DEGREE DAYS BASE 65°: HEATING (SEASON BEGINS WITH JULY)	COOLING (SEASON BEGINS WITH JAN.)	WEATHER TYPES ON DATES OF OCCURRENCE (1 FOG, 2 HEAVY FOG, 3 THUNDERSTORM, 4 ICE PELLETS, 5 HAIL, 6 GLAZE, 7 DUSTSTORM, 8 SMOKE, HAZE, 9 BLOWING SNOW)	SNOW, ICE PELLETS OR ICE ON GROUND AT 06AM IN.	PRECIPITATION: WATER EQUIVALENT IN	SNOW, ICE PELLETS IN.	AVG. STATION PRESSURE IN. ELEV. 605 FEET M.S.L.	WIND: RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE: SPEED M.P.H.	DIRECTION	SUNSHINE: MINUTES	PERCENT OF POSSIBLE	SKY COVER TENTHS: SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	DATE
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	34	19	27	-12	18	38	0	1	T	.18	1.2	29.66	06	4.9	5.3	8	08	0	0	10	10	1
2	34	23	29	-10	23	36	0	1	2	.06	.5	29.67	36	7.5	7.9	12	02	374	60	6	5	2
3	38	17	28	-11	18	37	0		1	0	0	29.75	03	4.9	6.5	9	01	473	75	5	5	3
4	41	17	29	-10	20	36	0	1 8	T	0	0	29.79	01	3.9	5.3	9	02	389	62	7	6	4
5	32	17	25	-15	20	40	0	8	T	T	T	29.72	31	9.2	11.1	21	33	0	0	10	9	5
6	23	10	17	-23	5	48	0	8	T	T	T	29.73	35	12.0	12.4	16	01	581	92	1	3	6
7	22	8*	15*	-25	4	50	0		T	0	0	29.71	02	7.9	8.2	13	02	546	86	9	6	7
8	34	10	22	-18	10	43	0		T	0	0	29.60	02	6.7	7.1	13	35	469	73	9	6	8
9	36	15	26	-14	15	39	0	8	T	0	0	29.51	01	8.8	9.2	13	01	473	74	8	6	9
10	38	19	29	-11	16	36	0	8	T	0	0	29.48	36	7.0	7.3	12	35	476	74	2	2	10
11	42	21	32	-8	15	33	0	8	T	0	0	29.48	36	3.4	4.9	8	03	578	90	2	1	11
12	48	23	36	-4	21	29	0		T	0	0	29.42	08	4.1	6.0	13	07	475	73	4	5	12
13	54*	35	45*	4	36	20	0	1	T	.41	T	28.89	25	5.1	11.9	2C	26	41	6	10	10	13
14	36	31	34	-7	27	31	0	1 8	0	T	T	29.34	28	9.1	10.4	16	27	0	0	10	10	14
15	40	22	31	-10	21	34	0	1	0	T	T	29.54	35	3.6	5.0	9	01	521	80	4	5	15
16	43	29	36	-5	27	29	0	1 8	T	.01	.1	29.52	03	5.2	5.5	9	02	186	28	9	7	16
17	33	28	31	-10	26	34	0	1 8	0	T	T	29.55	02	6.4	7.1	10	36	0	0	10	10	17
18	31	18	25	-16	20	40	0	8	T	.07	1.2	29.41	36	11.2	11.8	15	36	37	6	10	9	18
19	35	12	24	-18	9	41	0		T	0	0	29.42	34	6.4	7.1	10	31	662	100	0	0	19
20	41	15	28	-14	18	37	0		T	0	0	29.32	19	7.3	7.8	16	23	221	33	9	8	20
21	34	22	28	-14	22	37	0	2 8	2	.54	5.5	29.34	31	9.1	12.5	21	34	0	0	10	10	21
22	32	13	23	-19	10	42	0		6	T	T	29.59	28	4.9	9.1	12	15	587	88	1	4	22
23	37	27	32	-11	25	33	0	1	3	.05	.3	29.32	28	7.2	12.1	18	30	0	0	10	9	23
24	47	17	32	-11	22	33	0	8	1	0	0	29.40	20	6.2	8.1	14	20	673	100	0	0	24
25	49	31	40	-3	26	25	0		T	0	0	29.39	31	5.3	10.6	15	34	675	100	1	1	25
26	38	25	32	-11	19	33	0		T	0	0	29.63	36	8.9	9.2	14	01	437	64	3	2	26
27	42	22	32	-11	17	33	0		0	T	T	29.56	04	3.6	5.9	9	10	333	48	10	8	27
28	39	33	36	-8	33	29	0	2 4	1	.25	1.0	29.30	04	5.6	5.9	9	35	0	0	10	10	28

SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:						TOTAL	%	SUM	SUM
1053	579				996	0	NUMBER OF DAYS		1.57	9.8	29.50	35	4.3	8.2	21	34	9207	FOR	180	167
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION		DEP.						DATE: 21+		POSSIBLE	MONTH	AVG.	AVG.
37.6	20.7	29.2	-11.8	19	324	0	≥ .01 INCH	8	-2.86								18275	50	6.4	6.0
					SEASON TO DATE		SNOW, ICE PELLETS													
NUMBER OF DAYS					TOTAL	TOTAL	≥ 1.0 INCH	4	GREATEST IN 24 HOURS AND DATES						GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE					
MAXIMUM TEMP.		MINIMUM TEMP.			3644	0	THUNDERSTORMS	0	PRECIPITATION			SNOW, ICE PELLETS								
≥ 90°	≤ 32°	≤ 32°	≤ 0°		DEP.	DEP.	HEAVY FOG	2	.54	21		5.5	21		6	22				
0	5	26	0		693	0	CLEAR 8		PARTLY CLOUDY 5		CLOUDY 15									

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT
+ ALSO ON AN EARLIER DATE, OR DATES.
HEAVY FOG: - VISIBILITY 1/4 MILE OR LESS.
FIGURES FOR WIND DIRECTIONS ARE TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. 00 = CALM.
DATA IN COLS. 6 AND 12-15 ARE BASED ON 7 OR MORE OBSERVATIONS PER DAY AT 3-HOUR INTERVALS.
FASTEST MILE WIND SPEEDS ARE FASTEST OBSERVED ONE-MINUTE VALUES WHEN DIRECTIONS ARE IN TENS OF DEGREES. THE / WITH THE DIRECTION INDICATES PEAK GUST SPEED.
ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

SUMMARY BY HOURS

HOUR LOCAL TIME	AVERAGES: SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE: AIR °F	WET BULB °F	DEW PT. °F	RELATIVE HUMIDITY %	WIND SPEED M.P.H.	RESULTANT WIND: DIRECTION	SPEED M.P.H
00	5	29.51	27	24	19	72	7.5	35	3.8
03	5	29.49	25	23	18	77	7.1	36	3.6
06	6	29.50	23	22	18	81	6.7	34	3.4
09	6	29.53	27	25	19	73	7.9	35	3.2
12	6	29.52	34	29	20	60	9.5	33	4.7
15	6	29.48	36	31	21	55	10.3	35	5.0
18	7	29.50	32	28	20	62	9.3	35	5.9
21	7	29.51	30	26	20	67	7.6	36	5.0

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DATE	A.M. 1	2	3	4	5	6	7	8	9	10	11	12	P.M. 1	2	3	4	5	6	7	8	9	10	11	12	DATE
1																			T	T	.02	.05	.05	.06	1
2	.02	.03	.01	T																					2
3																									3
4																									4
5									T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	5
6	T	T	T	T	T	T	T	T																	6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12
13		.01	.24	.05			T	T	T				.09	.01	T	T	T	T	.01	T		T	T	T	13
14							T	T	T					T	T	T	T								14
15																								T	15
16	T	.01	T	T	T	T	T	T																	16
17																						T	T		17
18		T	T	T	T	.02	.03	.02	T																18
19																									19
20																									20
21			T	.04	.06	.05	.03	.02	.03	.03	.07	.14	.02	.03	.02	T	T	T	T	T	T	T	T	T	21
22	T																						T	T	22
23					T	T	.01	.01	.02	.01	T	T	T												23
24																									24
25																									25
26																									26
27																				T	T	T			27
28	.01	.09	.06	.03	.02	T	.02	.01	T	T	T											T	T	.01	28

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Daniel B. Mitchell
DIRECTOR, NATIONAL CLIMATIC CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER TENTHS	CEILING HNDS. OF FT.	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW PT. °F	REL. HUM. %	WIND DIR	WIND SPEED KNOTS
DAY 01											
00	6	UNL	12			20	19	14	77	06	4
03	8	220	12			20	19	15	81	06	5
06	10	60	10			21	19	14	74	08	5
09	10	120	10			24	22	15	68	06	5
12	10	120	15			29	25	15	56	08	5
15	10	120	15			33	28	18	54	08	4
18	10	30	8			32	29	22	67	04	5
21	10	15	3		S	31	30	27	85	36	4
DAY 02											
00	10	5	0	8	SF	30	30	29	96	33	5
03	10	4	2	8	SF	29	28	26	89	33	6
06	10	35	5		F	28	27	25	89	36	6
09	10	11	6		F	28	27	23	82	35	9
12	5	UNL	12			31	28	22	69	36	6
15	3	UNL	15			33	29	21	61	02	10
18	0	UNL	15			29	26	20	69	35	6
21	0	UNL	12			26	24	18	72	03	5
DAY 03											
00	0	UNL	10			23	22	18	81	36	4
03	8	UNL	10			18	18	15	88	02	5
06	6	UNL	10			18	17	13	81	12	5
09	0	UNL	8			24	22	16	71	06	6
12	1	UNL	10			33	28	19	56	35	7
15	2	UNL	10			37	32	22	55	08	5
18	10	100	8			34	30	23	64	02	7
21	8	30	10			29	26	19	66	36	6
DAY 04											
00	0	UNL	10			25	23	17	72	35	7
03	0	UNL	7			22	20	15	74	06	3
06	0	UNL	6		F	18	18	15	88	32	5
09	4	UNL	3		F	28	23	17	72	08	3
12	10	UNL	4		KH	36	32	24	62	12	3
15	10	100	6		KH	40	35	27	60	36	6
18	8	UNL	6		KH	36	31	24	64	03	5
21	8	100	5		KH	31	28	23	72	35	5
DAY 05											
00	7	100	5		KH	30	28	24	78	24	6
03	0	UNL	5		KH	27	25	20	75	25	5
06	10	32	5		KH	27	25	21	78	23	4
09	10	16	2		SGKH	28	27	23	82	30	8
12	10	15	2		SKH	31	29	25	78	32	11
15	10	35	2		SKH	29	26	18	63	32	16
18	10	35	3		SKH	23	21	15	71	33	13
21	10	38	5		SKH	20	18	10	65	34	14
DAY 06											
00	10	27	5		SKH	17	15	09	71	34	14
03	10	19	6		S	15	14	08	74	34	12
06	10	30	12		S	11	10	05	77	33	10
09	0	UNL	12			12	10	02	64	36	6
12	0	UNL	15			20	17	06	54	01	9
15	0	UNL	20			21	17	04	48	01	14
18	0	UNL	15			16	13	02	54	36	10
21	0	UNL	15			13	11	03	64	36	11
DAY 07											
00	0	UNL	10			11	10	03	70	02	8
03	0	UNL	10			10	09	04	76	01	7
06	6	UNL	10			09	08	04	80	01	6
09	10	UNL	10			13	11	04	67	07	5
12	10	250	15			18	15	02	48	02	6
15	7	UNL	20			22	18	04	46	02	10
18	6	UNL	15			17	14	04	56	02	8
21	4	UNL	15			14	12	04	64	02	7
DAY 08											
00	2	UNL	15			13	12	06	73	05	5
03	0	UNL	15			12	11	06	77	03	7
06	0	UNL	15			11	10	06	80	03	4
09	10	UNL	12			17	15	06	62	04	5
12	10	UNL	12			28	23	11	49	01	6
15	10	UNL	15			34	28	15	46	02	7
18	10	UNL	10			28	25	16	61	35	8
21	7	UNL	10			24	22	15	68	02	5
DAY 09											
00	0	UNL	10			21	20	16	81	03	7
03	0	UNL	10			18	17	13	81	01	6
06	0	UNL	10			15	14	11	84	33	6
09	5	UNL	5		KH	22	20	13	68	02	6
12	10	UNL	8			33	27	14	45	36	9
15	10	UNL	7			34	28	16	48	02	11
18	10	250	7			31	26	17	56	35	9
21	10	250	7			30	26	17	58	01	10
DAY 10											
00	5	UNL	7			25	23	16	69	34	7
03	0	UNL	7			23	21	16	74	35	7
06	2	UNL	5		KH	21	19	14	74	36	8
09	0	UNL	4		KH	24	21	14	66	02	7
12	0	UNL	5		KH	32	27	16	52	32	4
15	0	UNL	6		KH	38	31	17	43	01	8
18	2	UNL	6		KH	30	26	17	58	35	5
21	5	UNL	6		KH	29	26	18	63	36	5
DAY 11											
00	4	UNL	5		KH	28	25	17	63	31	4
03	0	UNL	5		KH	23	21	15	71	36	5
06	2	UNL	5		KH	21	20	15	78	01	4
09	2	UNL	5		KH	28	25	17	63	33	5
12	2	UNL	6		KH	37	28	10	33	24	3
15	3	UNL	7			42	32	14	32	06	3
18	1	UNL	8			37	30	15	41	06	5
21	0	UNL	8			32	27	15	48	02	5
DAY 12											
00	0	UNL	8			30	25	15	54	23	4
03	0	UNL	9			26	24	17	69	04	3
06	0	UNL	12			23	22	18	81	00	0
09	0	UNL	8			33	29	20	59	30	3
12	1	UNL	8			45	37	24	44	09	11
15	8	250	8			47	38	25	42	09	9
18	10	250	12			41	35	25	53	08	7
21	10	100	12			38	33	24	57	06	5
DAY 13											
00	10	80	12			38	32	23	55	05	7
03	10	55	5		R	35	33	30	82	07	5
06	10	24	9			37	36	35	92	10	6
09	10	12	7			46	46	46	100	17	9
12	10	80	7			53	48	44	72	23	15
15	10	18	7		R	43	42	40	89	29	16
18	10	15	2		RF	39	38	37	93	27	14
21	10	35	7			38	35	30	73	25	11
DAY 14											
00	10	30	6		S	36	33	28	73	25	10
03	10	45	8			34	31	27	76	27	7
06	10	32	8			33	30	25	72	29	13
09	10	17	6		H	33	31	27	79	26	9
12	10	21	6		H	33	31	27	79	28	11
15	10	17	5		H	34	32	28	79	28	8
18	10	16	2	8	F	33	31	27	79	32	8
21	10	16	4		F	32	30	27	82	36	6
DAY 15											
00	10	13	4		F	31	29	26	82	34	6
03	10	30	10			29	26	20	69	32	7
06	0	UNL	12			23	21	16	74	00	0
09	1	UNL	8			29	26	19	66	07	5
12	2	UNL	12			35	30	20	54	32	3
15	8	UNL	10			38	32	22	53	14	2
18	10	250	8			35	31	24	64	01	7
21	10	100	8			33	30	24	70	34	5
DAY 16											
00	10	60	7		S	31	29	24	75	04	4
03	10	30	3		S	31	30	27	85	01	4
06	10	6	5		S	30	29	27	89	02	4
09	10	30	4		F	32	31	28	85	02	4
12	10	45	6		H	37	34	29	73	04	3
15	8	60	7			42	37	29	60	06	7
18	0	UNL	6		H	37	33	28	70	02	8
21	0	UNL	6		H	32	30	26	79	36	4
DAY 17											
00	10	80	5		F	29	28	26	89	04	5
03	10	3	1	8	F	29	28	26	89	01	8
06	10	2	1	8	F	28	28	26	92	34	8
09	10	6	1	8	F	29	28	26	89	04	5
12	10	9	2		F	30	28	25	82	35	6
15	10	23	3		H	33	30	25	72	04	6
18	9	23	3		H	31	29	25	78	03	7
21	10	40	4		H	31	29	25	78	05	4
DAY 18											
00	10	10	5		H	28	27	24	85	36	9
03	10	11	5		H	28	27	24	85	36	10
06	10	2	1	8	SH	25	24	22	88	34	8
09	10	14	5		H	25	24	20	81	36	13
12	10	18	8			29	27	21	72	04	10
15	10	25	8			30	27	21	69	34	10
18	10	30	8			28	25	18	66	34	10
21	9	45	10			25	22	13	60	35	11
DAY 19											
00	0	UNL	10			18	16	08	65	34	9
03	0	UNL	10			15	13	07	70	32	6
06	0	UNL	10			13	12	06	73	31	9
09	0	UNL	8			18	16	08	65	35	4
12	0	UNL	10			28	23	11	49	34	5
15	0	UNL	12			34	27	11	38	33	5
18	0	UNL	20			28	23	11	49	01	8
21	0	UNL	20			23	19	08	52	04	3
DAY 20											
00	0	UNL	20			18	17	12	77	19	4
03	3	UNL	20			15	15	13	92	15	5
06	8	250	20			17	16	13	84	18	3
09	10	UNL	10			27	24	17	66	20	5
12	10	120	15			39	32	21	48	22	11
15	9	50	15			41	34	22	47	20	13
18	10	120	15			38	32	23	55	18	9
21	10	95	15			37	32	22	55	17	4
DAY 21											
00	10	95	15			33	29	23	67	08	5
03	10	23	5		S	34	31	25	70	05	3
06	10	3	0	8	SF	32	32	31	96	02	3
09	10	17	1		SF	27	26	24	88	25	16
12	10	5	0	6	SF	27	26	24	88	33	16
15	10	32	7		S	28	25	19	69	32	17
18	10	33	5		SH	24	22	16	71	30	17
21	10	60	6		H	23	20	13	65	32	10
DAY 22											
00	10	65	8		S	22	19	11	62	32	11
03	0	UNL	8			18	17	10	68	32	8
06	0	UNL	8			15	14	08	74	29	8
09	0	UNL	8			20	18	10	65	31	9
12	0	UNL	10			27	22	10	49	28	9
15	0	UNL	15			30	24	10	43	17	7
18	10	250	15			29	24	10	45	17	6
21	10	250	15			27	23	13	55	18	5
DAY 23											
00	10	85	15			30	26	18	61	14	8
03	10	75	12			31	27	19	61	17	8
06	10	32	12			32	30	25	75	22	7
09	10	5	0	12	SF	34	33	32	92	28	10
12	10	22	10		S	37	34	30	76	30	16
15	10	28	8			37	33	28	70	30	14
18	10	33	7			35	32	27	73	32	12
21	10	45	7			33	30	24	70	31	9
DAY 24											
00	0	UNL	12			27	24	18	69	35	6
03	0	UNL	12			21	20	16	81	20	4
06	0	UNL	10			17	17	15	92	19	6
09	0	UNL	7			29	26	20	69	19	7
12	0	UNL	15			38	33	25	60	23	10
15	0	UNL	15			45	38	28	51	20	11
18	0	UNL	15			44	37	27	51	18	6
21	0	UNL	15			40	34	25	55	19	6
DAY 25											
00	0	UNL	15			43	36	26	51	22	10
03	0	UNL	20			42	36	26	53	20	9
06	0	UNL	20			43	36	26	51	25	5
09	0	UNL	20			43	37	28	58	02	9
12	0	UNL	20			47	39	29	50	29	10
15	0	UNL	20			49	39	25	39	34	13
18	2	UNL	15			40	33	20	45	34	9
21	1	UNL	15			34	30	24	67	36	9
DAY 26											
00	1	UNL	15			31	29	24	75	36	5
03	2	UNL	20			29	27	23	78	35	7
06	3	UNL	15			26	24	19	75	33	8
09	9	35	12			28	25	17	63	36	11
12	3	UNL	12			34	28	17	50	01	12
15	0	UNL	20			37	30	17	44	02	7
18	0	UNL	20			33	28	17	52	01	7
21	0	UNL	20			28	25	18	66	02	7
DAY 27											
00	0	UNL	20			25	23	16	69	02	6
03	0	UNL	15			23	21	15	71	02	5
06	9	120	10			23	22	17	78	02	5
09	8	UNL	12			29	26	18	63	14	3
12	10	UNL	15			36	29	14	40	06	7
15	10	300	15			40	31	13	33	25	5
18	10	70	15			39	32	18	43	03	5
21	10	70	15			36	32	25	64	09	5
DAY 28											
00	10	50	15			36	33	27	70	04	3
03	10	5	1	8	RSSWF	34	33	31	89	07	6
06	10	4	2		RF	33	32	31	92	06	5
09	10	3	1	8	LF	33	33	32	96	02	5
12	10	3	1		F	35	35	34	96	03	5
15	10	3	0	12	F	37	37	36	96	02	6
18	10	3	0	8	F	38	37	36	93	02	6
21	10	2	0	4	F	37	37	36	96	04	5

NOTES

CEILING

UNL INDICATES UNLIMITED

WEATHER

- * TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SP SNOW PELLETS
- IC ICE CRYSTALS
- SW SNOW SHOWERS
- SG SNOW GRAINS
- IP ICE PELLETS
- A HAIL
- F FOG
- IF ICE FOG
- GF GROUND FOG
- BD BLOWING DUST
- BN BLOWING SAND
- BS BLOWING SNOW
- BY BLOWING SPRAY
- K SMOKE
- H HAZE
- D DUST

WIND

DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS. INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. ENTRY OF 00 IN THE DIRECTION COLUMN INDICATES CALM.

SPEED IS EXPRESSED IN KNOTS: MULTIPLY BY 1.15 TO CONVERT TO MILES PER HOUR.

STATION

NASHVILLE TENN

YEAR & MONTH

78 02

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